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Publication date:
2005

Document Version
Publisher's PDF, also known as Version of record

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Citation (APA):
Andreasen, J. W. (2005). *New X-ray scattering facility at Risø National Laboratory*. Abstract from 3rd Annual Meeting in the Copenhagen Graduate School for Nanoscience and Nanotechnology, Copenhagen, Denmark.

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New X-ray Scattering Facility at Risø National Laboratory

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The new X-ray facility at the Danish Polymer Centre, Risø National Laboratory, incorporates two rotating anodes equipped with focusing multilayer optics. The instrumentation allows for (surface) diffraction, reflectivity, laue diffraction and small angle scattering. The small angle scattering camera is optimised for maximum flux in the desired q-range. Together, these instruments provide for a full characterisation of crystalline and nano-structural organisation for a wide variety of organic and inorganic technological materials, in bulk, as thin films or in solution. Materials can be investigated under non-ambient conditions, e.g. gas flow and low or high temperature. The capabilities of the facility is demonstrated by some illustrative results.